



# Accura<sup>®</sup> CeraMAX<sup>™</sup>

## Specialty Class

Composite material for manufacturing stable, high-stiffness parts

### Post-Cured Material

MEASUREMENT	CONDITION	METRIC	U.S.
Tensile Strength (MPa/PSI)	ASTM D 638	78-87	11300-12600
Tensile Modulus (MPa/KSI)	ASTM D 638	9460-9680	1370-1400
Elongation at Break (%)	ASTM D 638	1 - 1.5	1 - 1.5
Flexural Strength (MPa/PSI)	ASTM D 790	137-145	19.9-21.0
Flexural Modulus (MPa/KSI)	ASTM D 790	8270-8370	1200-1210
Impact Strength (J/m /Ft-lbs/in)	ASTM D 256	14.5-17.9	0.27-0.34
Heat Deflection Temperature	ASTM D 648		
UV Postcure Only	@ 66 PSI	148 °C	298 °F
UV Postcure Only	@ 264 PSI	95 °C	203 °F
UV + thermal postcure (2hr @ 120 °C)	@ 66 PSI	220 °C	428 °F
UV + thermal postcure (2hr @ 120 °C)	@ 264 PSI	97 °C	207 °F
Coefficient of Thermal Expansion (CTE)	ASTM E 831-93		
	25-57 °C	31.1	17.3
	70-200 °C	87.4	45.6
Glass Transition (Tg)	DMA, E"		
UV Postcure Only		82 °C	180 °F
120 °C thermal postcure		94 °C	201 °F
Hardness, Shore D		89	89

### Liquid Material

MEASUREMENT	CONDITION	VALUE
Viscosity	@ 30 °C (86 °F)	1500-2000 cps
Penetration Depth (Dp)		5.7 mils
Critical Exposure (Ec)		7.2 mJ/cm <sup>2</sup>
Color		White
Solid Density	@ 25 °C (77 °F)	1.62 g/cm <sup>3</sup>
Liquid Density	@ 25 °C (77 °F)	1.59 g/cm <sup>3</sup>

### Features

- Highest stiffness available
- Heat and abrasion resistant
- Excellent chemical resistance
- Great for windtunnel models, jigs and fixtures



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